Blueprint Subsea

# SeaTrac Datasheet

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Manufacturer: Blueprint Subsea

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Model-specific values are defined in the manufacturer tables. Differences between the current website and this document are recorded on the relevant ROVITEC product pages.

**Original manufacturer source**

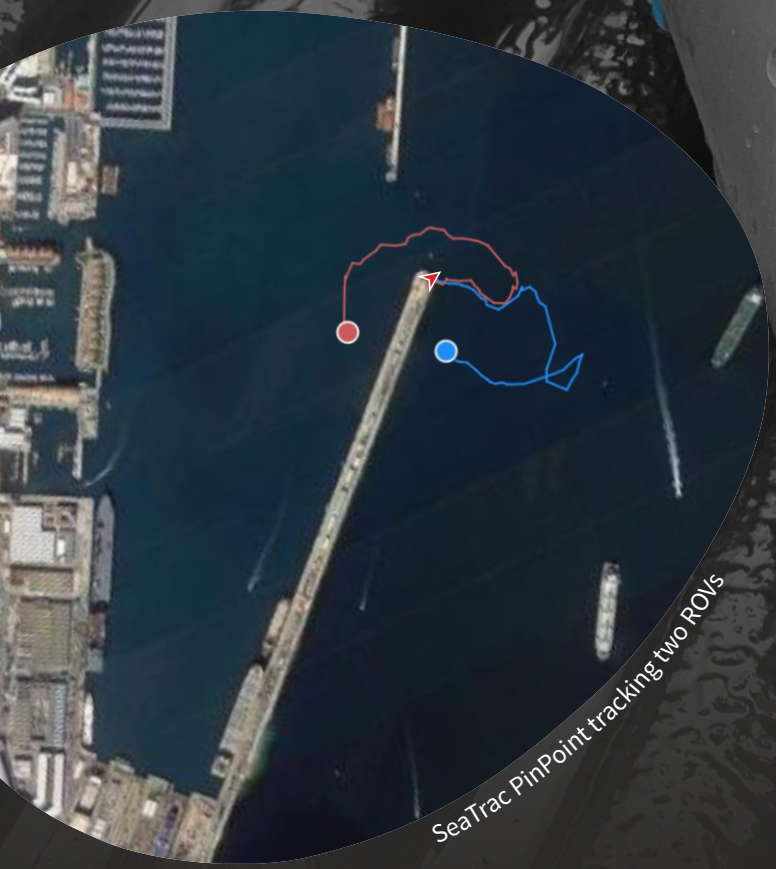
https://www.blueprintsubsea.com/downloads/seatrac/DA-140-D00233-10.pdf

Manufacturer pages follow unchanged. Local distribution copy.

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# SeaTrac Acoustic Positioning Systems

**Accurate, reliable positioning even in the most challenging underwater environments**



SeaTrac PinPoint tracking two ROVs

Compact form meets robust function, SeaTrac is a high accuracy USBL acoustic positioning system for real-time ROV, AUV and diver tracking. With a 1000m range and the ability to both track and exchange data with multiple assets, the list of potential applications is endless.

seatrac

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# Systems



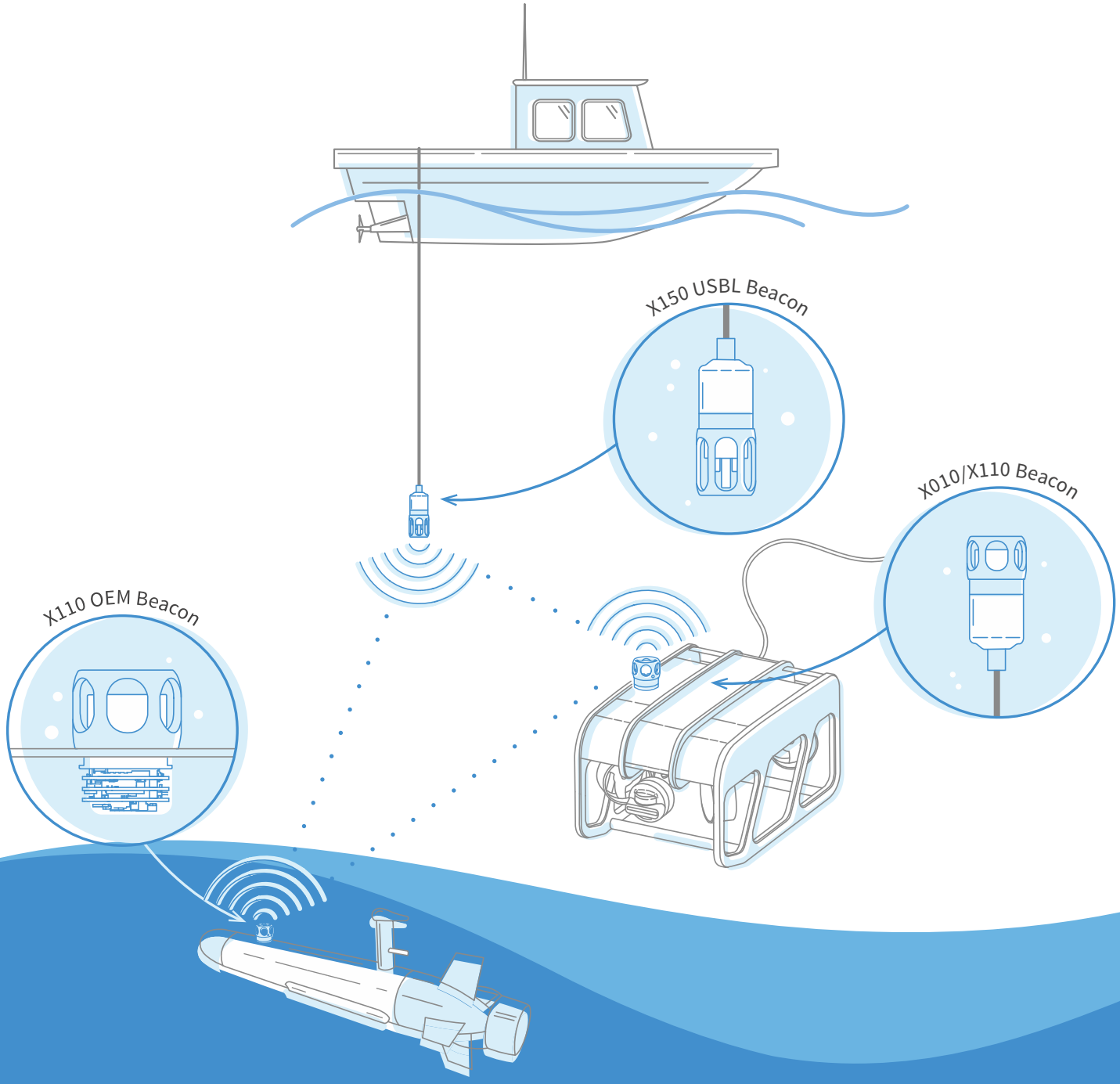
## SeaTrac Lightweight (X150/X010)

High accuracy USBL system for positioning applications down to 300m. Designed for micro- and inspection-class ROVs, small and medium AUVs, and divers.



## SeaTrac Standard (X150/X110)

High accuracy USBL system for positioning applications down to 2000m. Designed for inspection- and work-class ROV, large AUV, and divers.



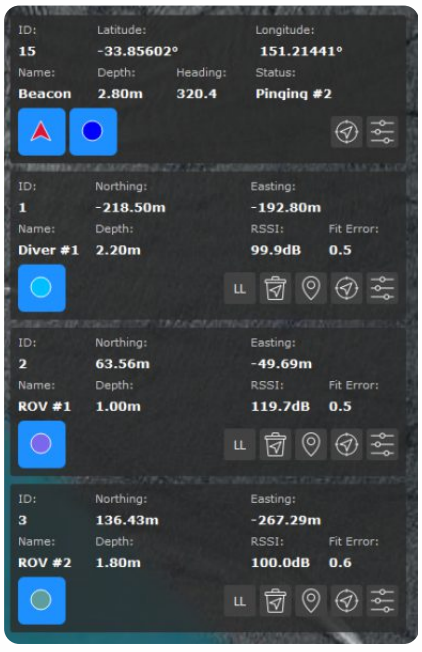
## Features

- High accuracy USBL positioning using internal Attitude Heading Reference System (AHRS)
- Real-time ROV, AUV and diver location and tracking
- Active Doppler Compensation allows robust tracking while on the move
- Compact and rugged beacon design for use on micro-, inspection- and work-class ROV platforms
- Reliable tracking of up to 14 in-water assets at any one time
- 1000m omnidirectional operating range
- Depth ratings of 300m and 2000m
- Simple, intuitive operator software
- Bidirectional data exchange facility
- OEM systems and software SDKs for integrators and developers

## Interface

SeaTrac PinPoint is an intuitive Windows software application that allows operators to display, log and playback positioning data.

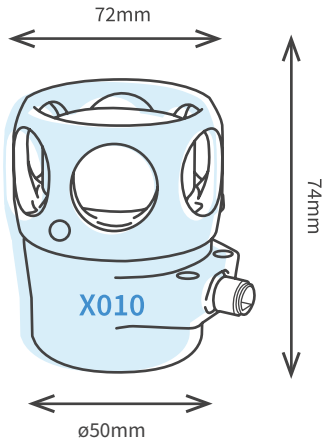


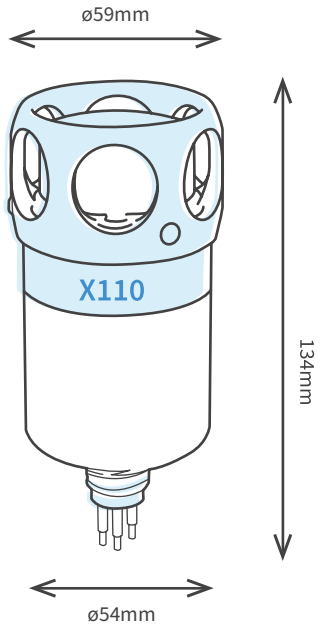



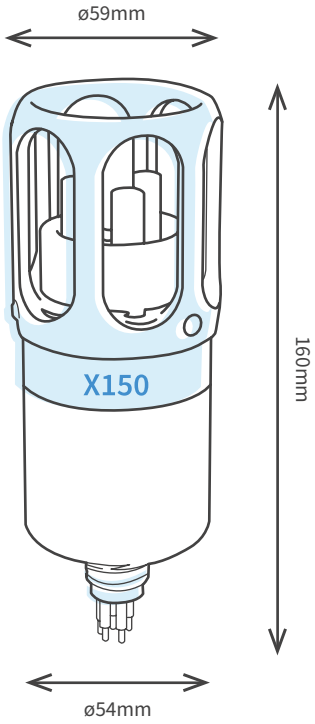

## SeaTrac PinPoint Software

- Easy to interpret positioning data
- Zoom, rotate, pan, and measure functionality
- Log latitude and longitude, northings and eastings, and depth data
- Record geographic markers and waypoint
- Output to other NMEA compatible systems
- Supports a wide range of geodetic reference systems including WGS84

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# Specification

## Mechanical

| | SeaTrac X150 | SeaTrac X110 | SeaTrac X010 |
|---|---|---|---|
| Length | 132mm (ex Con)<br>160mm (inc Con) | 106mm (ex Con)<br>134mm (inc Con) | 74mm |
| Diameter | 54mm Body<br>59mm Cage | | 50mm Body<br>59mm Cage |
| Weight | 720g (Air)<br>530g (Water) | 690g (Air)<br>500g (Water) | 300g (Air)<br>170g (Water) |
| Depth Rating Options | 100/2000m | 2000m | 300m |
| Construction | 316 Stainless Steel | | Black Acetal |
| Temp. Range (Operating) | -5°C to +40°C | | |

## Electrical

| | SeaTrac X150 | SeaTrac X110 | SeaTrac X010 |
|---|---|---|---|
| Connector | Impulse, 5-Way (MCBH-5-MP) | | Impulse, 4-Way (IE55-12) |
| Communications | Single RS-232 | | |
| Supply Voltage | 9-28VDC | | |
| Power Consumption | Approx 0.6W (Idle)<br>Approx 6W (Transmitting) | | |
| Integrated Sensors | Water Pressure & Temperature, 3-Axis MARG, Supply Voltage | | |
| Attitude & Heading | Internal 9-DOF AHRS With ±1° Yaw & ±0.2° Pitch & Roll Std-Deviation* | | N/A |

## Acoustic

| | SeaTrac X150 | SeaTrac X110 | SeaTrac X010 |
|---|---|---|---|
| Ranging | Yes | | |
| Positioning (USBL) | Yes | No | |
| Acoustic Range | 1km Radius Horizontal, 1km Vertical (Hemispherical) | | |
| Range Resolution | ±0.1m (Dependant on Provided VOS Accuracy) | | |
| Angular Resolution | typ 2% of Acoustic Range *(~±1° ) | N/A | |
| Velocity-of-Sound Range | 1300ms-1 to 1700ms-1<br>(Can Auto-Compute From Water Temperature & Depth) | | |
| Beacon Velocity | Active Doppler Compensation, up to 15kts (28kph) | | |
| Communications | Broadband Speed Spectrum Encoding, 24-32kHz, 100 baud.<br>Multi-tiered Acoustic Protocol Stack. | | |
| Targets (Addressing) | 15 Unique Beacon Identifiers, Broadcast to All Capability. Allows up to 14 Targets to Be Tracked From a Single X150 Beacon. | | |

## Applications

| | |
|---|---|
| Supported Software Platforms | SeaTrac PinPoint Software<br>SeaTrac Beacon Management Software |
| Developers/ Integrators | SDK, Including ASCII Based Serial Interface With Application Level and Acoustic Protocol Stack Level Commands for 3rd Party Integration. |

**Indicates value obtained from in-field testing with a data set of 1200 fixes from 22 positions, taken in enclosed area of water 380m x 160m x 10m.*

*Please note that all functions & specifications may be subject to change in line with our policy of continual product development.*

*DA-140-P00233-10*

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